

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **08003599 A**

(43) Date of publication of application: **09.01.96**

(51) Int. Cl **C11D 11/00**

(21) Application number: **06163144**

(22) Date of filing: **21.06.94**

(71) Applicant: **LION CORP**

(72) Inventor: **INOTSUKA TAKASHI
SHINJIYOU YOSHIKO
ISHIKAWA TSUTOMU**

(54) **PRODUCTION OF GRANULAR CLEANING
AGENT COMPOSITION HAVING HIGH BULKY
DENSITY**

(57) Abstract:

PURPOSE: To efficiently obtain the composition while preventing a material to be treated from attaching itself to a granulator by dividedly adding a paste such as a surfactant, paste or a liquid starting raw material to a multi-stage granulator so as to improve the solubility of cleaning agent particles causing a problem in producing a cleaning agent composition containing a surfactant in a high concentration.

CONSTITUTION: In granulating a surfactant and powder of at least one inorganic builder as starting raw materials, a multistage granulation system in which stirring granulators are arranged in series in a multistage state is

used. The surfactant and the powder of inorganic builder are dividedly added to the multistage granulation system, granulated in a multistage state for 0.5-60 second average retention time in the granulator of each stage at 8-40m/s speed of the tip of a stirring blade to produce the granular cleaning agent composition having high bulky density.

COPYRIGHT: (C)1996,JPO